

National Climatic Data Center

DATA DOCUMENTATION

FOR

DATASET 9656 (DSI-9656)

Excessive Precipitation Amounts

December 29, 2003

National Climatic Data Center
151 Patton Ave.
Asheville, NC 28801-5001 USA

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1. Abstract: This historical dataset contains statistics of maximum amounts of rainfall during the 10 year period 1962-1972. The study includes tropical cyclones in the Appalachians from 1900 through 1969 and considers primarily the maximum recorded rainfall in mountainous terrain. The criteria are that tropical cyclones had to pass the 1000-ft contour and that the precipitation was measured inside the outermost 1000-ft contour. In some cases the maxima were recorded at altitudes below the 1000-ft contour; these locations were in valleys surrounded by higher elevations. Supplemental information is presented for maxima rainfall anywhere after storm landfall, although passage of the system over the Appalachian region remained a criterion.

Data presented in this set are generally from stations equipped with recording gauges. Stations are at airport locations unless otherwise shown. This dataset presents the maximum fall of precipitation for the periods of 5 to 180 minutes, the maximum amounts being taken for the periods on which the fall is greatest for the given time, and is tabulated to show maximum amounts for 5, 10, 15, 20, 30, 45, 60, 80, 100, 120, 150 and 180 minutes, even if the fall does not equal the excessive rate for some of the periods.

The data are modeled by the gamma distribution. Probabilities of exceeding a specified rainfall amount and rainfall amounts for specified probability levels are presented in tabular and graphical form.

2. Element Names and Definitions:

Column	Element	Card Code	Definition
14-62		Blank	Missing data are indicated by blanks in the appropriate columns.
1-2	State or Area Index Number	01-96	See table.
3-6	Station Alpha Number	0001-9999	The number is assigned alphabetically according to its relative position in a list of all the cities and towns in a state or area.
7-8	Year	00-99	Last two digits of year.
9-10	Month	01-12	January to December
11-12	Day	01-31	Day of Month
13	Card number	1-3	Number of cards required for a given date in accumulative order.
14-61	Excessive precipitation amounts for:	0006-9999	00.06-99.99 inches and hundredths
14-17	5 minutes		
18-21	10 minutes		
22-25	15 minutes		
26-29	20 minutes		
30-33	30 minutes		
34-37	45 minutes		
38-41	60 minutes		
42-45	80 minutes		
46-49	100 minutes		
50-53	120 minutes		

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54-57	150 minutes		
58-61	180 minutes		
34-37	None for Year	XXXY	None. No excessive precipitation for year.
62	Reference Code	1 3 4 5	Record begins Estimated Clock trouble Record ends
63-80	Not used		

Station List

State	City
Alabama	Mobile Montgomery Birmingham Huntsville Dothan Gadsden Grove Hill (1)
Alaska	Anchorage Fairbanks Juneau
Arizona	Phoenix Tucson Flagstaff Yuma
Arkansas	Little Rock Ft. Smith El Dorado Texarkana Paragould (2)
California	San Diego Eureka Sacramento San Francisco Fresno Bakersfield Los Angeles Redding Susanville Bishop Salinas San Bernardino (3) Thermal Yreka (4) Needles Santa Rosa San Luis Obispo (5) Sonora (6) Merced Riverside El Centro
Colorado	Durango Grand Junction Sterling Trinidad

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	Denver Pueblo Lamar Craig
Connecticut	Hartford (7) Bridgeport New London
Delaware	Wilmington Dover (8)
Florida	Miami Tampa Orlando Jacksonville Tallahassee Pensacola
Georgia	Atlanta Columbus Augusta Savannah Albany Macon Valdosta Athens
Hawaii	Honolulu Hilo Hahului Lihue
Idaho	Boise Pocatello Lewiston Twin Falls Salmon Coeur D'Alene
Illinois	Rockford Chicago (9) Peoria Quincy Springfield Champaign Mt. Vernon
Indiana	South Bend Fort Wayne Indianapolis Terra Haute Evansville Richmond
Iowa	Sioux City Des Moines Davenport (11) Mason City Dubuque Burlington Ottumwa Spencer
Kansas	Topeka Wichita

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	Salina Goodland Coffeyville (12)
Kentucky	Louisville Paducah Bowling Green Lexington Pikeville Corbin (13)
Louisiana	Shreveport Monroe Alexandria (14) New Orleans Baton Rouge
Maine	Bangor (15) Portland Houlton
Maryland	Baltimore Cumberland (16) Hagerstown
Massachusetts	Boston (17) Pittsfield Worcester
Michigan	Detroit (18) Kalamazoo Muskegon Sault St. Marie Saginaw Marquette Traverse City Alpena
Minnesota	Duluth Minneapolis Rochester Bemidji St. Cloud Willmar (19)
Mississippi	Greenville Meridian Jackson Hattiesburg Tupelo Natchez
Missouri	Springfield Kansas City St. Louis Columbia Sikeston (20)
Montana	Havre Billings Butte Great Falls Kalispell Miles City Missoula Glasgow

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Nebraska	Omaha Grand Island Alliance McCook Beatrice O'Neil (21) Valentine
Nevada	Las Vegas Reno Winnemucca Ely Tonopah
New Hampshire	Concord Berlin Keene
New Jersey	Atlantic City Newark (22) Trenton
New Mexico	Albuquerque Roswell Las Cruces (23) Tucumcari Gallup
New York	Rochester Albany Binghamton Buffalo New York (24) Syracuse Glenns Falls Poughkeepsie Olean Ogdensburg
N. Carolina	Asheville Charlotte Raleigh Wilmington Greensboro Fayetteville Kinston Williamston (25)
N. Dakota	Bismark Fargo Grand Forks Minot Williston Ellendale (26)
Ohio	Toledo Lima Columbus Cleveland Youngstown Cincinnati Portsmouth
Oklahoma	Lawton Oklahoma City

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	Tulsa Enid Durant (27)
Oregon	Portland Eugene Lakeview Burns Pendleton
Pennsylvania	Erie Scranton (28) Allentown Philadelphia Pittsburgh Harrisburg Altoona Williamsport Dubois (29)
Rhode Island	Providence
S. Carolina	Charleston Columbia Greenville Florence
S. Dakota	Rapid City Pierre Brookings Huron Lemmon Sioux Falls Aberdeen
Tennessee	Memphis Nashville Chattanooga Knoxville Bristol Jackson
Texas	Amarillo El Paso Midland Abilene San Antonio Laredo Corpus Christi Houston Dallas Lubbock Marfa Brownsville Tyler Temple Ozona (30) Beaumont (31) Austin Waco
Utah	Salt Lake City Logan Cedar City

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	Green River Wendover
Vermont	Burlington Rutland
Virginia	Richmond Norfolk Roanoke Charlottesville Alexandria (32) Emporia (33) Winchester (34)
Washington	Spokane (35) Bellingham Yakima Seattle (36) Richland Pasco Kennewick
W. Virginia	Charleston Parkersburg Clarksburg Bluefield
Wisconsin	Eau Claire La Crosse Madison Milwaukee Green Bay Wausau Rhineland Sheboygan (37)
Wyoming	Sheridan Rock Springs Casper Cheyenne Cody Jackson

3. **Start Date:** 19620101

4. **Stop Date:** 19721231

5. **Coverage:**

- a. Southernmost Latitude: -90.0S
- b. Northernmost Latitude: 90.0N
- c. Westernmost Longitude: -180.0W
- d. Easternmost Longitude: 180.0E

6. **How to Order Data:**

Ask NCDC's Climate Services about the cost of obtaining this data set.
Phone: 828-271-4800
FAX: 828-271-4876
E-mail: NCDC.Orders@noaa.gov

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7. **Archiving Data Center:**

Archive Branch
National Climatic Data Center
151 Patton Avenue
Asheville, NC 28801

8. **Technical Contact:**

National Climatic Data Center
151 Patton Avenue
Asheville, NC 28801

9. **Known Uncorrected Problems:** None.

10. **Quality Statement:**

11. **Essential Companion Datasets:**

12. **References:**